**User Interface Testing**

# **Selecting and Uploading a File**

When the executable file is opened1, the interface should open to the below screen:

If the user does not have the standards file downloaded onto their device (It will be included in the executable file, so this would be in the case that it got deleted or moved) they will get the below error message:

Clicking on the “Select a .wav file” button will open the file explorer on the user’s computer and allow the user to browse their computer and select a wav file

After selecting a file, when the user clicks “open” the file will be read into the program.

As of now, once a file is loaded, the user can still click the “select a .wav file” button and start the process again with another file, in another series of windows. This may change in a later update.

The user will then be presented with the following window that has the file path of the selected file displayed:

Graphical user interface, text, application, email

Description automatically generated

The LUF value displayed will be the calculated LUFs value of the uploaded sound file.

The True Peak value displayed will be the true peak value of the uploaded sound file.

The user will then be able to select a report.

If the user closes out the above window they will be able to select another file and start the process over again.

If they close out the window erroneously at any point before generating a report, they will have to re-upload the file they wish to have analyzed.

# **Selecting a Report**

The user may choose what platform(s) and standard(s) they wish to see on the exported report.

## Selecting a Platform

At this point if the user can select what platform they would like to see if their file passes the standards of. They can also choose to see if their file passes all available platforms.

If the user does not change the platform, the default one is Spotify. If they wish to change which platform their file is tested against, they can click the arrow to produce the below drop-down menu:

Graphical user interface, text, application

Description automatically generated

Note that this drop down included only the standards that are pre-entered. If the user adds/deletes any platforms they will be reflected in this drop down.

The checkmark indicates which platform is currently selected. Clicking on any of these will cause “Spotify” to be replaced with the chosen platform.

## Selecting a Standard

At this point the user can select which standard they would like their file compared against.

If the user does not change the standard the default one is LUFs Value. If they wish to change the standard, they can click the arrow next to produce the below drop-down menu:

Graphical user interface, text, application

Description automatically generated

The checkmark indicates which standard is currently selected. Clicking on any of these will cause “LUF Value” to be replaced with the chosen standard.

## Generating the report

Once the user has selected the platform(s) and standard(s) they want hitting the “Enter” will generate the report and produce the following window with the results:

Table

Description automatically generated with medium confidence

It will once again show the calculated LUFs and True Peak values from the input file. It will also show the selected platforms and what their cutoff values are for the selected standards. Lastly, it will show if the file would pass or fail when compared to the platform’s standard.

# **Adding/Modifying/Viewing Standard**

There are 3 additional buttons on the opening screen that allow users to interact with the known standards for given platforms.

## Adding a standard

When a user clicks on the “Add a new standard button” the following window appears:

Graphical user interface

Description automatically generated

This allows the user to input a platform name, the standard LUFs value for the platform, and the standard True Peak value for the platform.

When the user clicks the “Enter” button the input platform and standard will be added to the existing list within the program and will be able to be selected by the user to be included in the report.

Any added standards will remain in the database until if/when they are deleted. Even if the program is closed and re-opened.

### Possible Errors

There are a few situations that could cause an error message in response to the input from the user:

1. If the user enters the name of a platform whose standards are already in the program no error message will pop up, but no additional standard will be added.
2. If the user enters an unrealistic value.
   1. If the user enters a positive LUFs or True Peak value the following error messages will appear respectively:

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated

* 1. If the user enters a value that is not numerical for the LUFs or True Peak value, the following error messages will appear respectively:

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated

* 1. If the user does not enter a name for their new platform, they will get the below error message:

Graphical user interface, text, application

Description automatically generated

* 1. The user is able to enter a value for one or both the True Peak and LUFs standard. However, if the user enters neither standard, they will get the below error message:

## Modifying a standard

When a user clicks on the “Modify/Delete existing standards” the following window appears:

A picture containing text

Description automatically generated

This allows the user to modify an existing platform’s standard LUFs value, and/or standard True Peak value or delete an existing standard.

### Selecting a Platform

If the user does not change the platform, the default one is Spotify. If they wish to change which platform they are modifying, they can click the arrow to produce the below drop-down menu:

Text

Description automatically generated

Again, note that this drop down included only the standards that are pre-entered. If the user adds/deletes any platforms, they will be reflected in this drop down.

The checkmark indicates which platform is currently selected. Clicking on any of these will cause “Spotify” to be replaced with the chosen platform.

### Changing LUFs/Peak

At this point the user can select how they wish to modify the standards for the selected platform.

If the user does not change the standard the default one is LUFs Value. If they wish to change the standard, they can click the arrow next to produce the below drop-down menu:

Text

Description automatically generated

The checkmark indicates which standard is currently selected. Clicking on any of these will cause “LUF Value” to be replaced with the chosen selection.

Choosing “LUFs value” or “Peak Value” will require the user to input a new LUFs or True Peak value. The input by the user follows the same logic as discussed in the “Adding a Standard” section and is subject to receiving the same error messages if an inappropriate value is input.

A user cannot modify both the LUFs and True peak standards at the same time. If they wish to change both, they will have to change one, again choose “Modify/Delete existing standards”, and then change the other.

When the user clicks the “Enter” the new LUFs or Peak value for the selected platform will be updated and reflected in any future comparisons/outputs.

### Deleting a Platform

Choosing “Delete Standard” and then clicking the “Enter” button will cause the selected platform and corresponding standard values to be removed from the available standards. This means they will no longer be able to be selected or included on any comparisons/outputs.

Any deleted standards will remain removed from the database until if/when they are added back in. Even if the program is closed and re-opened.

If all standards are deleted, clicking “Modify/Delete existing standards” will result in a blank window as there will be no existing standard to modify.

## Viewing existing standards

When a user clicks “View existing standards” the below window is opened:

Table

Description automatically generated

It lists the current list of standards that available to be selected and included in the comparisons/reports. Any platforms added/deleted by the user will be reflected here. If there are no platforms/standards currently in the program, only the headers will appear in the window.